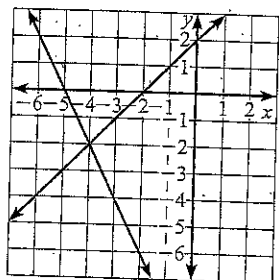


Linear Systems

For Exercises 1 and 2, use the graph shown below.



1. What is the estimated solution of the linear equations graphed?

A. $(-5, 0)$ B. $(0, 2)$ C. $(-4, -2)$ D. $(-2, 0)$

3. Solve the system using the substitution method.

$$3x - 4y = 1$$

$$-2x + y = -14$$

4. Solve the system using the elimination method.

$$6x + 5y = 2$$

$$3x + 4y = 7$$

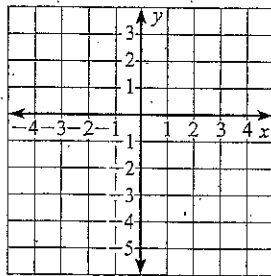
5. A painter bought a total of 8 containers of paint for \$146. The gallon-sized containers cost \$22 each and the quart-sized containers cost \$12 each.
- Write a system of equations to model the number of each container size the painter bought.

b. How many gallon-sized containers were bought?

For Exercises 6 and 7, sketch a graph of the system of inequalities.

6. $x - y < 3$

$$2x + y > -1$$



7. $2x - y < -2$

$$y \leq 2x - 1$$

